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luminescing in red, green and blue. On their way to the display screen 10, the electron beams 7, 8 and 9 are deflected across the display screen 10 by means of a deflection unit 11 and pass through a shadow mask 12 which is arranged in front of the display window 3 and which comprises a thin plate having apertures. The shadow mask is suspended in the display window by means of suspension means 14. The three electron beams 7, 8 and 9 pass the apertures 13 of the shadow mask at a small angle relative to each other and, consequently, each electron beam impinges on phosphor elements of only one color.

REMARKS

This application has been carefully reviewed in light of the Office Action dated December 18, 2002. Claims 1-2 remain pending in this application. Claim 1 is the independent claim. Favorable reconsideration is respectfully requested.

In response to the objections to the disclosure of the invention, Applicant respectfully believes the amendments to the specification render the objections moot. Applicant respectfully requests withdrawal of the objection to the specification.

On the merits, the Office Action rejected Claims 1 and 2 under 35 U.S.C. § 102(b) as being anticipated by Van Doorn et al. (U.S. Patent No. 5,942,848; hereinafter "Van Doorn"). Applicant respectfully submits that the pending claims are patentable for at least the following reasons:

Applicant's Claim 1 recites: "[a] [c]olor display device comprising a substrate, said color display device having on the substrate a phosphor pattern of phosphor regions containing phosphors for emitting, in operation, red, blue and green light

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through a display window, with at least a blue color filter layer extending between the blue phosphor and the substrate, characterized in that the blue phosphors comprises phosphor particles provided with blue pigment."


Van Doorn fails to recite or suggest that the blue phosphors comprise phosphor particles provided with blue pigment. Rather, Van Doorn recites applying a photoresist-suspension mask layer 36 containing, for example, blue dye then applying photosuspension 37 containing blue luminescent phosphors (Col. 3, line 65 to Col. 4, line 7). The blue dye in Van Doorn is included in blue color filter layer 24B as opposed to in the phosphor layer 25B. Thus, Van Doorn fails to recite or suggest blue pigment in the phosphor particles. Claim 1 is believed patentable over Van Doorn for at least these reasons.

Claim 2 depends from independent Claim 1 discussed above and is believed patentable for at least the same reasons. In addition, Applicant respectfully believes Claim 2 to be independently patentable and request separate consideration of each claim.

In view of the foregoing amendments and remarks, Applicant respectfully requests favorable reconsideration and early passage to issue of the present application.

Applicant's undersigned agent may be reached by telephone at
the number given below.

Respectfully submitted,

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APPENDIX A

MARKED-UP SPECIFICATION

Page 1, paragraph 1:

FIELD OF THE INVENTION

The invention relates to a color display device comprising a substrate, said color display device having on the substrate a phosphor pattern of phosphor regions containing phosphors for emitting, in operation, red, blue and green light through a display window, with at least a blue color filter layer extending between the blue phosphor and the substrate.

Page 1, paragraph 3:

BACKGROUND OF THE INVENTION

A color display device of the type mentioned in the opening paragraph is known for instance from WO 98/18148. Said known color display device comprises a phosphor pattern which includes sub-patterns of phosphor regions luminescing red, green and blue light (hereinafter also referred to as 'red', 'green' and 'blue' phosphors). Colored layers (also referred to as color-filter layers) are provided under phosphor regions of corresponding color. The color filter layer absorbs incident light of different wavelengths than the light emitted by the relevant phosphor. This leads to a reduction of the diffuse reflection of incident light and to an improved contrast of the picture displayed. In addition the color filter layer may absorb a part of the emission radiated by the relevant phosphor, for instance emission peaks outside the wanted portion the visible spectrum, improving the color point of the relevant phosphor. The known color display device comprises at least a blue color filter layer.

Page 1, paragraph 6:

SUMMARY OF THE INVENTION

To this end a display device in accordance with the invention is characterized in that the blue phosphors comprises phosphor particles provided with blue pigment.

Page 2, paragraph 3:

BRIEF DESCRIPTION OF THE DRAWING

These and other aspects of the invention will be apparent from and elucidated with reference to the embodiments described hereinafter.

Page 2, paragraph 9:

DETAILED DESCRIPTION OF THE PRIMARY EMBODIMENT

A color display device (Fig. 1) comprises an evacuated envelope 2 including a display window 3, a cone portion 4 and a neck 5. In the neck 5 there is arranged an electron gun 6 for generating three electron beams 7, 8 and 9. A display screen 10 is provided on the inner surface of the display window. Said display screen 10 comprises a phosphor pattern of phosphor element luminescing in red, green and blue. On their way to the display screen 10, the electron beams 7, 8 and 9 are deflected across the display screen 10 by means of a deflection unit 11 and pass through a shadow mask 12 which is arranged in front of the display window 3 and which comprises a thin plate having apertures. The shadow mask is suspended in the display window by means of suspension means 14. The three electron beams 7, 8 and 9 pass the apertures 13 of the shadow mask at a small angle relative to each other and, consequently, each electron beam impinges on phosphor elements of only one color.

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